



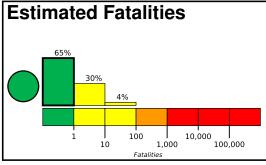


PAGER Version 3

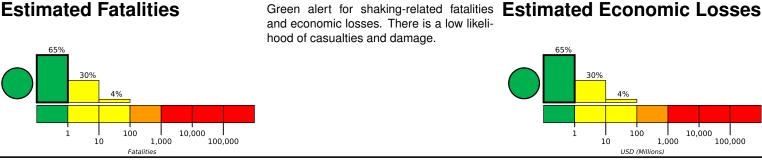
Created: 2 hours, 6 minutes after earthquake

M 5.4, 51 km NNE of Nanao, Japan

Origin Time: 2021-09-16 09:42:29 UTC (Thu 18:42:29 local) Location: 37.4695° N 137.2229° E Depth: 10.0 km



and economic losses. There is a low likelihood of casualties and damage.



Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		_*	13,494k	1,360k	23k	17k	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		ı	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVED	SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
DAMAGE	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan

5000 10000 136.4°E 137.8°E 38.9°N 37.8°N 36.6°N Kanazawa **Comatsu** Fukui-shi akefu

Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are heavy wood frame and reinforced/confined masonry construction.

Historical Earthquakes

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
1983-03-15	298	5.4	VII(259k)	1
1983-08-08	272	5.6	VII(7k)	1
1995-01-16	377	6.9	IX(1,740k)	6k

Recent earthquakes in this area have caused secondary hazards such as landslides, fires and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI City Population					
City	Population				
Nanao	45k				
Himimachi	55k				
Hakui	25k				
Nishishinminato	36k				
Nyuzen	28k				
Kurobe-shi	43k				
Toyama	326k				
Kanazawa	459k				
Niigata	505k				
Nagano	360k				
Maebashi	283k				
	City Nanao Himimachi Hakui Nishishinminato Nyuzen Kurobe-shi Toyama Kanazawa Niigata Nagano				

bold cities appear on map.

(k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.